

# Innealtóireacht Struchtúr

## Structural Engineering

TU824

### Programme Description

The BE in Structural Engineering is a four year Honours degree programme. Students enter second year following completion of the common first year in Engineering (TU805).

### Career Opportunities

Structural engineers are concerned with the design and construction of buildings, bridges and special structures. They form part of the team of professionals involved in construction projects and thus work closely with Architects, Quantity Surveyors and Building Services Engineers. Graduates of Structural Engineering have excellent employment prospects with consulting engineering design offices, contractors, as well as state and semi-state agencies and local authorities.

### Progression

Graduates have access to a range of Masters (Level 9) and PhD (Level 10) degrees in TU Dublin and elsewhere in Higher Education. Graduates would be suited in particular to the ME in Sustainable Infrastructure offered within the school.



### Programme Outline

#### Year Two

Mathematics, Mechanics of Materials, Surveying, Fluid Mechanics, Concrete Technology, Building Technology, Professional Development, Structural Analysis, Laboratory Work, Computing.

#### Year Three

Mathematics, Structural Analysis, Concrete Design, Steel Design, Mechanics of Materials, Professional Development, Geotechnical Engineering, Structural Design Project, Laboratory Work

#### Year Four

Mathematics, Mechanics of Materials, Structural Analysis, Construction Management & Economics, Highway Engineering, Design of Structures Steel, Design of Structures Concrete, Scheme Design, Project.

### Further Information

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### Award

Honours Degree (Level 8)

### Entry requirements

Completion of TU805 (CAO 2019 400pts)

### Duration

3 Years (following completion of TU805)

### Location

TU Dublin Bolton Street

